title. 07 1211.3

date.

1-(b)
$$\lim_{\chi \to \infty} \frac{\chi \chi^2 + 1}{3\chi^2 + 2\chi} = \lim_{\chi \to \infty} \frac{\chi + \chi^2}{3 + \frac{\chi}{\chi}} = \frac{\chi}{3}$$

#1-(e)
$$1/m \sqrt{\chi} + 2 + 1 = 1/m$$
 $2+1$
 $\chi \rightarrow + 1 + 1 = 1$
 $\chi \rightarrow + 1 + 1 = 1$
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#1-(d)
$$\lim_{q \to \infty} (\sqrt{q^2 + 2\alpha} - q) = \lim_{\chi \to \infty} \frac{2\eta}{\sqrt{q^2 + 2\alpha} + \chi}$$

$$= \lim_{\chi \to \infty} \sqrt{\chi}$$

$$= \lim_{\chi \to \infty} \sqrt{\chi}$$

$$= \lim_{\chi \to \infty} \sqrt{\chi}$$

$$= \frac{2}{\chi} = 1$$

#2.
$$\lim_{\alpha \to 1^+} f(\alpha) = \lim_{\alpha \to 1^+} \alpha = 1$$

$$\lim_{q \to 1^{-}} f(q) = \lim_{q \to 1^{-}} \left(q + 1 \right) = 2$$

-by time
$$f(x) = 1 + 2 = 1$$
 im $f(x)$ of $e \ge 1$